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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/695,869	10/26/2000	Taichi Shino	2000 1452A	2975	
7	590 05/21/2003				
Wenderoth Lind & Ponack LLP			EXAMINER		
2033 K Street NW Suite 800 Washington, DC 20006			NGUYEN, CHANH DUY		
			ART UNIT	PAPER NUMBER	
•	•		2675		
			DATE MAILED: 05/21/2003	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	·	pplicant(s)				
		09/695,869		SHINO ET AL.	N			
		Examiner		Art Unit				
		Chanh Nguyen		2675				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover	sheet with the c	orrespondence ad	dress			
THE I - External after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl operiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howe ply within the statutory min d will apply and will expire s te, cause the application to	over, may a reply be timinum of thirty (30) days SIX (6) MONTHS from the become ABANDONE	nely filed s will be considered timel the mailing date of this co D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on 24	February 2003 .						
2a)⊠		his action is non-fi	nal.					
3)□	Since this application is in condition for allow closed in accordance with the practice under				e merits is			
•	ion of Claims							
,—	Claim(s) <u>16-31</u> is/are pending in the application							
	4a) Of the above claim(s) is/are withdra	awn from considera	ation.					
	Claim(s) is/are allowed.							
·	Claim(s) <u>16-31</u> is/are rejected.							
_	Claim(s) is/are objected to.	/						
8) Applicati	Claim(s) are subject to restriction and/ ion Papers	or election require	ment.					
	The specification is objected to by the Examin	er.						
·	The drawing(s) filed on is/are: a)☐ acco		ed to by the Exa	miner.				
,—	Applicant may not request that any objection to the		-					
11) 🔲	The proposed drawing correction filed on	is: a)∏ approve	ed b)∐ disappro	ved by the Examin	er.			
	If approved, corrected drawings are required in re	eply to this Office ac	tion.					
12)	The oath or declaration is objected to by the E	xaminer.						
Priority (under 35 U.S.C. §§ 119 and 120							
13)	Acknowledgment is made of a claim for foreign	gn priority under 35	5 U.S.C. § 119(a)-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
* 5	Copies of the certified copies of the prication from the International Bee the attached detailed Office action for a lis	ureau (PCT Rule 1	17.2(a)).		Stage			
14) 🗌 A	Acknowledgment is made of a claim for domes	stic priority under 3	5 U.S.C. § 119(e	e) (to a provisiona	l application).			
	 The translation of the foreign language process. Acknowledgment is made of a claim for domes 	• •						
Attachmen	at(s)							
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Notice of Informal I	r (PTO-413) Paper No Patent Application (PT				
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Art Unit: 2675

DETAILED ACTION

Response to Amendment

1. The amendment including substitute specification filed on February 24, 2003 has been entered and considered by examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 16-23, 26-28 and 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa et al (U.S. Patent No. 6,288,692) in view of Marcotte (U.S. Patent No. 6,411,035).

As to claim16, Kanazawa discloses an alternate current plasma display panel including a first insulating substrate and second substrate (i.e., front glass substrate and rear glass substrate)being transparent and disposed facing each other to form a discharge space. Kanazawa teaches a plurality of display electrodes (51, 52) disposed over the first insulating substrate (front glass), each display electrodes including a scan electrode (51) and a sustain electrode (52); see figure 13 and 14. Kanazawa teaches a plurality of data electrodes (53) disposed over the second insulating substrate (rear glass substrate) and being disposed perpendicular to the display electrodes (51 and

Art Unit: 2675

52); see figure 13 and 14. Kanazawa teaches well-known Figures 2-3 having a plurality of phosphors (27) placed along the data electrode and a dielectric layer (24) covering the display electrode as recite in claim. Kanazawa teaches a barrier (58) disposed on the dielectric layer (i.e. dielectric layer 24 referred to Figures 2-3) the barrier extending longitudinally approximately parallel with the display electrodes (51, 52). The only thing different between Kanazawa and the claim 1 is that Kanazawa does not teaches one or more conductor adjoining a respective one of the display electrodes. Marcotte teaches well known feature of one or more conductors (40) adjoining a respective one of the display electrodes (10, 42, 44) (See Figure 3 and see column 2, lines 7-25). Therefore, it would have been obvious to one of ordinary skill in the art at the invention was made to have added a conductor (40) as taught by Marcotte adjoining with display data of Kanazawa so that it provide a larger, brighter and more uniform discharge area than the dual discharge site topology (see column 2, lines 27-36 of Marcotte).

As to claim 26, this claim differs from claim 16 only in that the limitation "each of the conductor is electronically connected to a respective one of the scan electrode and the sustain electrode" is additionally recited. Marcotte clearly teaches the conductor being electronically connected to a respective one of the scan electrode and the sustain electrode (see column 2, lines 7-10).

As to claims 17 and 30-31, Marcotte clearly teaches the conductor being electronically connected to a respective one of the scan electrode and the sustain electrode (see column 2, lines 7-10).

Art Unit: 2675

As to claims 18, 20, Marcotte teaches well known feature of one or more conductors (40) adjoining a respective one of the display electrodes (10, 42, 44) (See Figure 3 and see column 2, lines 7-25).

As to claim 19, 21, Figure 4 of Marcotte clearly teaches the claimed "reverse order" as recited in the claim. That is first order: sustain electrode 10, and conductor 40 then reverse order: conductor 40 and scanning electrode 42.

As to claim 22, Kanazawa clearly teaches the barrier (58) beign disposed between adjacent rows (52).

As to claims 23 and 28, photo-absortive material barrier is known in the art, even taught by Kanazawa so as to prevent the light from leak.

As to claim 27, Kanazawa teaches a barrier (58) disposed on the dielectric layer (i.e. dielectric layer 24 referred to Figures 2-3) the barrier extending longitudinally approximately parallel with the display electrodes (51, 52).

3. Claims 24-25 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanazawa in view of Marcotte, as applied to claims 16 and 26, and further in view of Yamada (U.S. Patent No. 6,275,203).

As to claims 24-25 and 29, note the discussion of Kanazawa and Marcotte above, Kanazawa and Marcotte discloses an alternate current plasma display panel as recited in claim 1 with exception of describing the limitation "reverse of a polarity" as recited in claims 24-25 and 29. Yamada teaches the voltages applied to the scan electrodes and sustain electrodes being opposite polarity; see figures 6, 19-20 and

Art Unit: 2675

column 10, lines 15-60. Since one of the conductors (40) of Marcotte physically connects to scanning line 42. Thus, at least one of the conductor (40) has the same polarity as the scanning conductor (40) which is opposite polarity of the sustain electrode (10) as modified by Yamada. Therefore, it would have been obvious to one of ordinary skill in the art at the invention was made to have used the voltages applied to scan and sustain electrodes with opposite polarity as taught by Yamada to the driving circuit of Kanazawa so that an electromagnetic noise generated in the electrodes can be canceled by another.

Response to Arguments

4. Applicant's arguments with respect to claims 16-31 have been considered but are most in view of the new ground(s) of rejection.

In view of amendment, the reference of Marcotte has been added for new ground rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Art Unit: 2675

Page 6

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Inquiries

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chanh Nguyen whose telephone number is (703) 308-

6603.

If attempts to reach the examiner by telephone are unsuccessful, the examiner

supervisor, Steven Saras can be reached at 305-9720.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121

Crystal Drive, Arlington, VA, Sixth Floor (Receptionist)

Art Unit: 2675

Page 7

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

C. Nguyen March 18, 2003

> CHANH NGUYEN PRIMARY EXAMINER